IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An operation data creating method for creating operation data in a mobile communication system which includes a plurality of base stations within a service area and a mobile station which makes a wireless communication with the base stations, said operation data creating method comprising the steps of:

creating quality information indicating the communication quality level with respect to each base station at each local position of plural identified regions within a cell of the service area;

selecting <u>a subset of first identified regions from the plural identified regions</u>, a first base station having a highest communication quality level at each <u>local position identified</u> region in <u>a-the</u> subset of <u>local positions</u> within each cell of the service area, <u>first identified</u> regions based on the created quality information, said subset of <u>local positions first identified</u> regions including a local position of the mobile station;

selecting base stations having a second highest or subsequent communication quality level which is lower than the first base station at each local position identified region in the subset of first identified regions where the first base station has the highest communication quality level in the subset of local positions, based on the created quality information; and

creating the operation data indicating the selected base stations as other base stations related to the first base station having the highest communication quality level.

Claim 2 (Currently Amended): The operation data creating method for the mobile communication system as claimed in claim 1, wherein-further comprising:

computing, by estimation according to a predetermined algorithm, the communication quality level with respect to each base station at each local position-identified region within the service area is computed by estimation according to a predetermined algorithm; and creating the quality information is created based on a computed result result of the computing.

Claim 3 (Currently Amended): The operation data creating method for the mobile communication system as claimed in claim 1, wherein further comprising:

measuring the communication quality level with respect to each base station at each local position identified region within the service area is measured,; and

<u>creating</u> the quality information is <u>created</u>-based on a <u>measured result result of the</u> measuring.

Claim 4 (Currently Amended): The operation data creating method for the mobile communication system as claimed in claim 1, wherein further comprising:

selecting one of the base stations having the second or subsequent communication quality level is selected if a same base station having has the second or subsequent communication quality level at a plurality of local positions each identified region in the subset of first identified regions, when selecting the base stations having the second or subsequent communication quality level at each local position identified region where the first base station has the highest communication quality level.

Claim 5 (Currently Amended): The operation data creating method for the mobile communication system as claimed in claim 1, comprising the steps of:

creating a list having a-base stations arranged at positions in an order from a highest communication quality level based on the created quality information, with respect to each local position identified region;

selecting base stations located at a second or subsequent position in each list having the first base station positioned at a first position having the highest order in each list; and creating operation data indicating the selected base stations as the other base stations related to the first base station located at the first position having the highest order in each list.

Claim 6 (Previously Presented): The operation data creating method for the mobile communication system as claimed in claim 5, wherein:

the base stations are successively selected from the positions having the higher order in each list, when selecting the base stations located at the second or subsequent position in each list having the first base station positioned at the first position having the highest order in each list, and

the operation data created indicate the selected base stations as the other base stations related to the first base station at the first position having the highest order in each list, in a state where the selected base stations are arranged in the selected order.

Claim 7 (Previously Presented): The operation data creating method for the mobile communication system as claimed in claim 6, wherein:

score information corresponding to a number of a same base station located at a same position in each list is generated, when successively selecting the base stations located at the second or subsequent positions in each list having the first base station located at the first

position having the highest order in each list, from the base stations located at positions having the higher order in each list, and

the operation data created indicates the selected base stations as the other base stations related to the first base station at the first position having the highest order in each list, in a state where the score information is made to correspond to the same base station located at the same position in each list.

Claim 8 (Currently Amended): An operation data creating apparatus for creating operation data in a mobile communication system which includes a plurality of base stations within a service area and a mobile station which makes a wireless communication with the base stations, said apparatus comprising:

quality information creating means for creating quality information indicating the communication quality level with respect to each base station at each local position of plural identified regions within a cell of the service area;

first base station selecting means for selecting a <u>subset of first identified regions from</u>

the plural identified regions, first base station having a highest communication quality level at
each <u>local position identified region</u> in a the subset of <u>local positions</u> within the service area,
first identified regions based on the created quality information, said subset of <u>local positions</u>
first identified regions including a local position of the mobile station;

base station selecting means for selecting base stations having a second highest or subsequent communication quality level which is lower than the first base station at each local position-identified region in the subset of first identified regions where the first base station has the highest communication quality level in the subset of local positions, based on the created quality information; and

creating means for creating the operation data indicating the selected base stations as other base stations related to the first base station having the highest communication quality level.

Claim 9 (Currently Amended): The operation data creating apparatus for the mobile communication system as claimed in claim 8, wherein further comprising:

said quality information creating means includes computing means for computing by estimation the communication quality level with respect to each base station at each local position identified region within the service area according to a predetermined algorithm, and creates the quality information based on a computed result of the computing means.

Claim 10 (Currently Amended): The operation data creating apparatus for the mobile communication system as claimed in claim 8, wherein:

said quality information creating means measures the communication quality level with respect to each base station at each <u>local position identified region</u> within the service area, and creates the quality information based on a measured result.

Claim 11 (Currently Amended): The operation data creating apparatus for the mobile communication system as claimed in claim 8, wherein:

said base station selecting means selects one of the base stations having the second or subsequent communication quality level if a same base station has the second or subsequent communication quality level at a plurality of local positions each identified region in the subset of first identified regions, when selecting the base stations having the second or subsequent communication quality level at each local position identified region where the first base station has the highest communication quality level.

Claim 12 (Currently Amended): The operation data creating apparatus for the mobile communication system as claimed in claim 8, wherein:

said base station selecting means includes list creating means for creating a list having base stations arranged at positions in an order from a highest communication quality level based on the created quality information, with respect to each <u>local position</u> identified region,

base stations located at a second or subsequent position in each list having the first base station positioned at a first position having the highest order in each list are selected, and operation data indicating the selected base stations as the other base stations related to the first base station located at the first position having the highest order in each list are created.

Claim 13 (Previously Presented): The operation data creating apparatus for the mobile communication system as claimed in claim 12, wherein:

said base station selecting means successively selects the base stations from the positions having the higher order in each list, when selecting the base stations located at the second or subsequent position in each list having the first base station positioned at the first position having the highest order in each list, and

the operation data indicating the selected base stations as the other base stations related to the first base station at the first position having the highest order in each list, in a state where the selected base stations are arranged in the selected order, are created.

Claim 14 (Previously Presented): The operation data creating apparatus for the mobile communication system as claimed in claim 13, wherein:

said base station selecting means includes score information generating means for generating score information corresponding to a number of a same base station located at a same position in each list, when successively selecting the base stations located at the second or subsequent positions in each list having the first base station located at the first position having the highest order in each list, from the base stations located at positions having the higher order in each list, and

the operation data indicating the selected base stations as the other base stations related to the first base station at the first position having the highest order in each list, in a state where the score information is made to correspond to the same base station located at the same position in each list, are created.

Claim 15 (Currently Amended): A computer-readable storage medium which stores a program for causing a computer to carry out a process of creating operation data in a mobile communication system which includes a plurality of base stations within a service area and a mobile station which makes a wireless communication with the base stations, said program comprising:

a quality information creating procedure which causes the computer to create quality information indicating the communication quality level with respect to each base station at each local position of plural identified regions within a cell of the service area;

a first base station selecting procedure which causes the computer to select a subset of first identified regions from the plural identified regions, a first base station having a highest communication quality level at each local position-identified region in a-the subset of local positions within each cell of the service area, first identified regions based on the created quality information, said subset of local positions first identified regions including a local position of the mobile station;

a base station selecting procedure which causes the computer to select base stations having a second highest or subsequent communication quality level which is lower than the first base station at each local position-identified region in the subset of first identified regions where the first base station has the highest communication quality level in the subset of local positions, based on the created quality information; and

a creating procedure which causes the computer to create the operation data indicating the selected base stations as other base stations related to the first base station having the highest communication quality level.

Claim 16 (Currently Amended): The computer-readable storage medium as claimed in claim 15, wherein:

said quality information creating procedure includes a computing procedure which causes the computer to compute by estimation the communication quality level with respect to each base station at each <u>local position identified region</u> within the service area according to a predetermined algorithm, and the quality information is created based on a computed result of the computing procedure.

Claim 17 (Currently Amended): The computer-readable storage medium as claimed in claim 15, wherein:

said quality information creating procedure causes the computer to measure the communication quality level with respect to each base station at each-local position identified region within the service area, and the quality information is created based on a measured result.

Claim 18 (Currently Amended): The computer-readable storage medium as claimed in claim 15, wherein:

said base station selecting procedure causes the computer to select one of the base stations having the second or subsequent communication quality level in each list if a same base station has the second or subsequent communication quality level at a plurality of local positions identified regions, when selecting the base stations having the second or subsequent communication quality level at each local position identified region in the subset of first identified regions where the first base station has the highest communication quality level in each list.

Claim 19 (Currently Amended): The computer-readable storage medium as claimed in claim 15, wherein:

said base station selecting procedure includes a list creating procedure which causes the computer to create a list having base stations arranged at positions in an order from a highest communication quality level based on the created quality information, with respect to each local position identified region,

base stations located at a second or subsequent position in each list having the first base station positioned at a first position having the highest order in each list are selected, and operation data indicating the selected base stations as the other base stations related to the first base station located at the first position having the highest order in each list are created.

Claim 20 (Previously Presented): The computer-readable storage medium as claimed in claim 19, wherein:

said base station selecting procedure causes the computer to successively select the base stations from the positions having the higher order in each list, when selecting the base stations located at the second or subsequent position in each list having the first base station positioned at the first position having the highest order in each list, and

the operation data indicating the selected base stations as the other base stations related to the first base station at the first position having the highest order in each list, in a state where the selected base stations are arranged in the selected order, are created.

Claim 21 (Previously Presented): The computer-readable storage medium as claimed in claim 20, wherein:

said base station selecting procedure includes a score information generating procedure which causes the computer to generate score information corresponding to a number of a same base station located at a same position in each list, when successively selecting the base stations located at the second or subsequent positions in each list having the first base station located at the first position having the highest order in each list, from the base stations located at positions having the higher order in each list, and

the operation data indicating the selected base stations as the other base stations related to the first base station at the first position having the highest order in each list, in a state where the score information is made to correspond to the same base station located at the same position in each list, are created.

Claim 22 (Currently Amended): An operation data creating apparatus for creating operation data in a mobile communication system which includes a plurality of base stations within a service area and a mobile station which makes a wireless communication with the base stations, said apparatus comprising:

a quality information creating part configured to create quality information indicating the communication quality level with respect to each base station at each local position of plural identified region within a cell of the service area;

a first base station selecting part configured to select a <u>subset of first identified</u> regions from the plural identified regions, a first base station having a highest communication quality level at each <u>local position identified region</u> in a the subset of <u>local positions</u> within the service area, <u>first identified regions</u> based on the created quality information, said subset of <u>local positions first identified regions</u> including at least one <u>local position identified region</u> within the service area;

a base station selecting part configured to select base stations having a second highest or subsequent communication quality level which is lower than the first base station at each local position identified region in the subset of first identified regions where the first base station has the highest communication quality level in the subset of local positions; based on the created quality information; and

a creating part configured to create the operation data indicating the selected base stations as the other base stations related to the first base station having the highest communication quality level.

Claim 23 (New): The method of claim 1, further comprising: identifying the plural identified regions within the cell of the service area.

Claim 24 (New): The apparatus of claim 8, further comprising: means for identifying the plural identified regions within the cell of the service area.

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Claim 25 (New): The computer-readable storage medium of claim 15, said program further comprising:

a region identifying procedure configured to identify the plural identified regions within the cell of the service area.

Claim 26 (New): The apparatus of claim 22, further comprising:

a region identifying part configured to identify the plural identified regions within the cell of the service area.